

SHSD Job Risk Assessment

Job Number: SHSD-JRA- 08 Job Title: Emergency Responding to chemical spills	Point Value → Parameter ↓	1	2	3	4	5
Job Description: Reporting to the CP, giving advise on responder and by-stander exposure, taking sampling equipment or expertise to scene, assessing and monitoring IH hazards of areas or operations	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Name(s) of Specific Application Risk Team Members: D. Robbins, E. Lacina, C. Weilandics, J. Peters, R. Selvey	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training Procedures List (Optional): Applicable Standard Operating Procedures: Approved by: R. Selvey, SHSD OSH POC Date: 03/10/06 Rev. #: 0	Likelihood (D)	Very Unlikely	Unlikely	Possible	Probable	Multiple
Stressors (if applicable, please list all) walking surface conditions; emergency status, off hours		Reason for Revision (if applicable):			Comments:	

		Without Controls					Before Additional Controls							After Additional Controls							
Activity	Hazard	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s)	Stressor	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Receive call	Auto accident if driving	2	2	4	3	48	Traffic laws to pull over to answer call	Y	2	2	4	1	16								
Drive to and from BNL from off-site if emergency is in off-hours	See BNL Driving	-	-	-	-	-	See BNL Driving, SHSD application is not elevated or differing from site driving.	-	-	-	-	-	-								
Drive to scene CP	See BNL Driving	-	-	-	-	-	See BNL Driving, SHSD application is not elevated or differing from site driving.	-	-	-	-	-	-								
Loading & unloading equipment	Pinch, ergo strain	-	-	-	-	-	See IH JRA-05 for risk analysis of handling the IH equipment	-	-	-	-	-	-								

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		Without Controls					Before Additional Controls							After Additional Controls							
Activity	Hazard	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s)	Stressor	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
	Fatigue during loading and unloading of equipment	1	2	2	3	12	Assistance from other SHSD personnel and other organizations	N	1	2	2	3	12								
Approach and Report to command	Chemical inhalation	1	2	3	3	18	CP is upwind of scene, SSD provides local direction and traffic control	Y	1	2	2	2	8								
	Walking hazards-slips, trips, falls	1	2	3	3	18	Temporary Lighting provided at CP, traffic control limits vehicles, emergency vehicles sirens	Y	1	2	3	3	18								
Enter the exclusion zone for observation or sampling	Chemical inhalation	1	2	3	4	24	PPE and respiratory protection-SCBA	Y	1	2	1	2	4								
	Walking hazards-slips, trips, falls, especially limited vision in PPE	1	2	3	3	18	Training and Awareness HazWoper	Y	1	2	3	3	18								
	Material handling of IH equipment	1	2	3	3	18	Wheels on some equipment, handles, meters can be removed from case to reduce weight	Y	1	2	3	3	18								
	Heat/Cold Stress	1	2	3	3	18	Short time of exposure restricted by SCBA tank life	Y	1	2	3	3	18								
Decontamination	Asphyxiation	1	2	5	5	50	Alarm on air line bottles, HazWoper training, policy on immediate evacuation when alarm sounds	Y	1	2	5	2	20								
	Chemical splash from decontamination solutions	1	2	2	4	16	Decon protocol for full containment during wash down, training of ESD Decon personnel	Y	1	2	2	2	8								
	Slips, trips, fall on decon plastic	1	2	3	5	30	Assistance from decon crew, buddy system	Y	1	2	3	4	24								

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Further Description of Controls Added to Reduce Risk:

- This operation was deemed to be operating well for risk control.

Lesson Learned from this Risk Assessment:

- The SHSD emergency response role has advanced based on improvements made as part of Phase 1 and 2 OSHAS 18001 registration and the SHSD IH Qualification Program. This assessment confirmed existing improvement initiatives but did not add additional lessons.

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable